



## PATENT ABSTRACTS OF JAPAN

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the instruction.

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(57) Abstract:

**PROBLEM TO BE SOLVED:** To prevent a portable information recording medium from being illegally accessed by checking the validity of each instruction sent from an external device and then executing the instruction.

**SOLUTION:** The portable information recording medium is provided with a random number generating means 1, a certification data generating means 21, an instruction controlling means 3, an instruction executing means 4, a cipher key selecting means 51, and the like. The means 51 is provided with a correspondence table between instructions and cipher keys as a key table and the means 21 is provided with cipher algorithm. The portable information recording medium is an IC card having a microcomputer, an IC card and the like. The means 21 generates certification data for all or a part of an instruction sent from the external device by the use of a random number, a cipher key and the cipher algorithm and the means 3 compares the generated certification data with certification data sent from the external device together with the instruction to certificate the validity of the instruction and permit the execution of

